

# TPMC-8X

## Isys™ 8.4" WiFi Touchpanel

The Crestron Isys® TPMC-8X is a compact, stylish Wi-Fi touchpanel featuring the Windows® XP Embedded OS to deliver a 2-way wireless control solution with blazingly fast performance and native capabilities for browsing the Internet, streaming multimedia, and much more. A brilliant 8.4" active-matrix SVGA display and 16-bit color depth combine to produce stunning 3D graphics using DNav dynamic menu objects, dynamic graphics and text, animations, multimode objects, PNG translucency, and exclusive Synapse™ image rendering - all with astonishing speed.

### Advanced Ergonomics

Incredibly thin and compact, the TPMC-8X is brilliantly designed to provide a powerful mobile control solution that's easy to hold and intuitive to use. Its magnesium alloy enclosure presents a sleek, modern appearance that is both rugged and lightweight.

### Tactile Controls

An integrated 5-way thumbpad and up/down arrow buttons add quick-access and tactile response for controlling functions ranging from simple volume adjustment and channel selection to on-screen menu navigation or even pan/tilt camera control. Four additional "hard key" buttons are positioned below the touchscreen, programmable for context-sensitive menu functions. A stylus is even included for use with the on-screen keyboard, conveniently stowed in its own storage slot.

### Biometric Scanner

The built-in fingerprint scanner unleashes a whole new level of convenience and security, allowing individual users to be identified instantly and logged on automatically. With just the touch of a fingertip, each user can be presented with a unique graphical interface with its own set of preferences, access privileges, and even its own look through the use of touchpanel "skins".

### Wi-Fi Wireless

Integrated 802.11a/b/g Wi-Fi technology with WEP encryption delivers secure, high-speed 2-way wireless performance across wireless LAN's, affording mobile freedom and seamless communications with Crestron control systems, computers, digital media servers, and other IP-based devices.

### Embedded PC

The power of Isys is in its embedded PC engine, combining rock solid touchpanel performance with built-in Windows Media® Player and RealPlayer®, Internet Explorer, Adobe® Acrobat® Reader, and Microsoft Word, Excel®, and PowerPoint® document viewers. While simultaneously controlling your home theater, boardroom, or lecture hall, the TPMC-8X provides everything needed for enjoying online music and movies, viewing Web pages and accessing most types of digital media without necessitating a separate computer.

VNC Viewer support delivers enhanced cross-platform interaction with remote computers over the network or Internet, allowing access and control of desktop applications with live presentation capability.

Built on the Windows XP Embedded operating system, the TPMC-8X delivers a powerful and secure platform for touchpanel control with integrated PC capabilities. Programmatic control erases the lines between control system and PC, allowing programmers to customize each application's behavior within the touchpanel environment to create a truly powerful and user-friendly interface.



SHOWN WITH OPTIONAL DOCKING STATION

### Wireless Video

For presentation preview, surveillance, or pure entertainment, the TPMC-8X makes it easy to view security cameras, movies, and other video sources right on the touchscreen. In addition to the wide range of streaming video formats supported by its onboard media player applications, the TPMC-8X also features native support for video over IP from a variety of 3rd-party Web cameras and servers including the Crestron CEN-NVS100.

### Audio and Intercom

Built-in amplified speakers and headphone output provide clear audio for streaming media and internal PC applications, and enable 2-way IP intercom in combination with the integrated microphone. Crestron IP intercom capability facilitates direct panel-to-panel intercom and monitoring right over the wireless LAN. Customized WAV files can also be loaded on the touchpanel to add dimension to the touchscreen graphics with personalized sounds, button feedback, and voice prompts.

### Li-Ion Rechargeable Batteries

A field-replaceable Lithium Ion battery pack onboard the TPMC-8X provides fast-charging, long-lasting wireless operation without the "memory" issues typical of other rechargeable batteries. An external "booster" battery pack is also available, providing up to 20 hours of typical use between charges. The optional external battery pack clips neatly to the rear of the touchpanel without tools, adding 0.75 inch depth and non-slip rubber feet resulting in a fixed tilt angle of 7 degrees.

### Docking Station Options

Optional desktop or wall mount docking stations afford a choice of convenient charging solutions, adding 10/100 Ethernet for direct connection to a wired LAN, plus two USB ports for mouse and keyboard. The desktop dock allows the touchpanel to be operated upright at a 37 degree angle, while the wall mount model provides a secure, flush look.

> *Stylish and compact ergonomic design*

> *8.4" active matrix touchscreen display*

# TPMC-8X Isys™ 8.4" WiFi Touchpanel

- > 16-bit Isys™ graphics | 800 x 600 resolution
- > Synapse image rendering algorithm
- > DNav dynamic menu objects
- > 802.11a/b/g Wi-Fi 2-way wireless communications
- > Windows XP Embedded operating system
- > Onboard PC applications for Web browsing, streaming media, and remote computer access
- > Multi-format streaming video and audio
- > WAV file audio feedback
- > Direct panel-to-panel intercom over IP
- > Built-in microphone and stereo speakers
- > 5-way thumbpad and 4 "hard key" buttons
- > Includes stylus with onboard storage slot
- > Built-in biometric fingerprint scanner
- > Internal Li-Ion battery pack included
- > External "booster" battery pack available
- > Optional desktop and wall mount docking stations

## SPECIFICATIONS

### Touchscreen Display

Display Type: TFT active matrix color LCD

Size: 8.4 inch (213 mm) diagonal

Aspect Ratio: 4:3 SVGA

Resolution: 800 x 600 pixels

Brightness: 200 nits (cd/m<sup>2</sup>)

Contrast: 500:1

Color Depth: 18-bit, 262k colors

Illumination: Edge-lit fluorescent

Viewing Angle: ±65° horizontal, +65°/-45° vertical

Touchscreen: Resistive membrane

### Buttons & Switches

Hard Keys : (4) programmable pushbuttons below touchscreen

Thumbpad: (1) programmable 5-way thumbpad (4-way navigation plus center "ENTER" button)

Arrows: (2) programmable up/down pushbuttons

Power: (1) pushbutton, initiates "Power On" and "Power Down"

Battery: (1) Recessed slide switch inside battery compartment, shuts off battery for long-term storage

### Biometric Scanner

AuthenTec® EntrePad® 1610 fingerprint scanner;

Identifies up to 30 users by fingerprint

### LED Indicators

Power: (1) Green LED, indicates touchpanel power status

Battery: (1) Green/yellow dual-color LED, indicates battery condition and charging status

WiFi: (1) Green LED, indicates wireless network connection status

### Memory

DDR SDRAM: 512 MB

Flash: 1 GB

Compact Flash: Accepts up to 4GB Type II CF+ (not included)

Maximum Project Size: 190 MB

### Operating System

Microsoft® Windows® XP Embedded

### Graphic Engine

16-bit non-palette graphics; 65,536 colors; Synapse image rendering algorithm; multi-mode objects; DNav dynamic menu objects; dynamic graphics and text; PNG translucency; full-motion (60 fps) animation; transition effects

### Embedded Applications

Microsoft Internet Explorer w/Adobe® Flash® plug-in, Windows Media® Player, RealPlayer®, Crestron MJPEG Viewer, Crestron IP Intercom, VNC Viewer, Remote Desktop, Java™ Runtime, Crestron Keyboard, Adobe® Acrobat® Reader, WordPad, MS Word Viewer 2003, Excel® Viewer 2003, PowerPoint® Viewer 2003

### Wireless

Transceiver: IEEE 802.11a/b/g Wi-Fi (5.8 or 2.4 GHz 2-way RF), static IP or dynamic IP via DHCP, 64 and 128-bit WEP encryption

Range: 30 feet (10m) @54Mbps; range and speed vary based upon environmental conditions

Gateway: Requires a CEN-WAP-ABG-1G, CEN-WAP-ABG-CM, or similar 802.11a/b/g wireless access point and Ethernet-enabled Crestron 2-Series control system

### Ethernet

10BaseT/100BaseTX, auto-switching, auto-negotiating, auto-discovery, full/half duplex, TCP/IP, UDP/IP, CIP, DHCP

NOTE: Ethernet requires a wired connection via docking station.

### Video

Streaming/File Formats: MJPEG via Crestron MJPEG Viewer, plus all formats supported by the embedded media player applications

### Audio

Hardware Features: Dual onboard microphones, built-in stereo speakers, stereo headphone output

Streaming/File Formats: As supported by the embedded media player applications

Audio Feedback: WAV format, 8 & 16 bit PCM, mono & stereo, 8 - 44.1 kHz sampling rates

Amplification: Stereo, 1.1 Watts per channel

### Connectors

HEADPHONES: (1) 3.5 mm TRS mini phone jack;

Stereo headphone output;

Output Power: 12mW per channel;

Minimum Impedance: 32 ohms

USB: (1) USB Type A female;

USB 2.0 port for keyboard, mouse, and storage devices

MEMORY CARD: (1) Type II CF+ Card slot

12V 3.5A: (1) 2.5mm barrel DC power jack;

12 Volt DC power input (power supply included)

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## **Battery**

**Internal Battery:** Lithium Ion, 7.4 Volt, 2200 mAh, Crestron model TPMC-8X-BTP included

**Usage per Charge :** ~1.5 hours continuous, 9+ hours under normal use with standby/powerdown activated<sup>[1]</sup>

**Charging Time :** ~2 hours (~2.5 to 3 hours when in use)

## **Power Requirements**

**Power Pack:** 3.5 Amps @ 12 Volts DC;  
100-240 Volts AC, 50/60 Hz power pack included

## **Environmental**

**Operating Temperature:** 32° to 104°F (0° to 40°C)

**Storage Temperature:** 14° to 140°F (-10° to 60°C)

**Humidity:** 10% to 90% RH (non-condensing)

**Heat Dissipation:** 143 BTU/Hr

## **Enclosure**

**Construction:** Magnesium alloy case with plastic buttons, stylus storage slot (stylus included), integral docking station port

## **Dimensions**

**Height:** 8.21 in (209 mm)

**Width:** 9.69 in (247 mm)

**Depth:** 0.92 in (24 mm)

## **Weight**

1.98 lbs (0.90 kg)

## **Available Models**

TPMC-8X: Isys™ 8.4" WiFi Touchpanel

## **Included Accessories**

TPMC-8X-BTP Internal Battery Pack [Included Quantity for TPMC-8X: 1]

## **Available Accessories**

TPMC-8X-DS: Desktop Docking Station/Charger

TPMC-8X-DSW: Wall Mount Docking Station/Charger

TPMC-8X-BTPE: External Battery Pack

CEN-WAP-ABG-1G: Wall Mount 802.11a/b/g Wireless Access Point

CEN-WAP-ABG-POE-PWE: Wall Mount 802.11a/b/g Wireless Access Point w/ PoE Injector

CEN-WAP-POE-PAK: Wall Mount 802.11a/b/g Wireless Access Point w/5-Port PoE Switch

CEN-WAP-ABG-CM: Ceiling Mount 802.11a/b/g Wireless Access Point

CEN-WAP-ABG-POE-PWE-CM: Ceiling Mount 802.11a/b/g Wireless Access Point w/PoE Injector

CEN-NVS100: Network Video Streamer

CEN-NVS100-PWE: Network Video Streamer w/PoE Injector

SW-VMK-WIN: TouchPoint™ Virtual Mouse & Keyboard Software for Windows® [Release Date: TBA]

## Notes:

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at [www.crestron.com/salesreps](http://www.crestron.com/salesreps) or by calling 800-237-2041.

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